ANALOG DEVICES
AHEAD OF WHAT'S POSSIBLE™

LOW NOISE ISOLATED CAN FD TRANSCEIVERS FOR HIGHER DATA RATES AND LOW LOOP DELAYS

Isolated high speed CAN FD transceivers provide complete isolation between a CAN protocol controller and the physical two-wire CAN bus network. Fully isolate high bandwidth CAN networks over longer distances while delivering EMC performance and reducing design complexity and project risk.

ADM3055E
12 Mbps CAN FD
Futureproof Your Bandwidth

Integrated CAN FD Solution

ADI's new ADM3055E family of isolated CAN FD transceivers with integrated power bring improved bandwidth, low loop delays, higher noise immunity, improved EMC and ESD, higher working voltages, surge performance, and wider temperature range. Designers can isolate communications without the development cost, size, and reliability constraints found with traditional isolation products.

The CAN FD Trend

The new realities of converging technologies, sensing and connectivity, along with the requirements for increased performance and product compatibility, push a CAN's communication bandwidth to its limit. CAN FD extends the classical CAN standard and permits significantly higher data rates and additional bytes of data with each frame, enabling easy upgrades of existing systems.

*i*Coupler®

Applications Overview

Industrial Automation
Motor control
PLC

Building Controls
Plant
HVAC
Refrigeration

Energy
Storage
Renewables
Charging
Battery formation/test

Military/Aerospace
Extended temperature EP
Mission critical
Harsh environments

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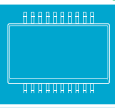
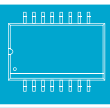
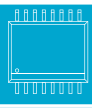
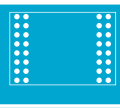
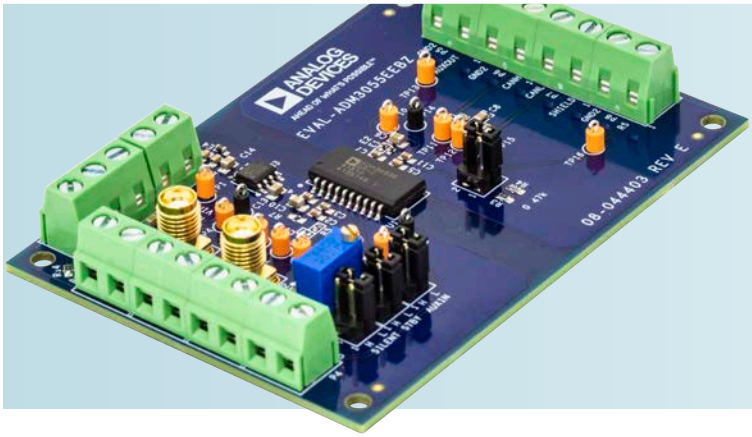
	New Additions			
	ADM3055E 20-lead SOIC_IC	**ADM3056E** 16-lead SOIC_IC	**ADM3050E** 16-lead SOIC_W	**LTM2889**
CAN FD Family Product Features				
Isolation Rating (kV)	5	5.7	5.7	2.5
Isolated Power	Yes	No	No	Yes
Creepage/Clearance (mm)	8.3	8.3	7.8	9.5
Fault Protection (V)	40	40	40	60
Temperature	–40°C to +105°C	–40°C to +125°C	–40°C to +125°C	–40°C to +125°C
Features	Aux iso channel Dominant timeout Standby mode Silent mode Slope control	Aux iso channel Dominant timeout Standby mode Silent mode Slope control	Pin-to-pin with popular socket Dominant timeout	0.75 W aux power Dominant timeout Standby mode Slope control

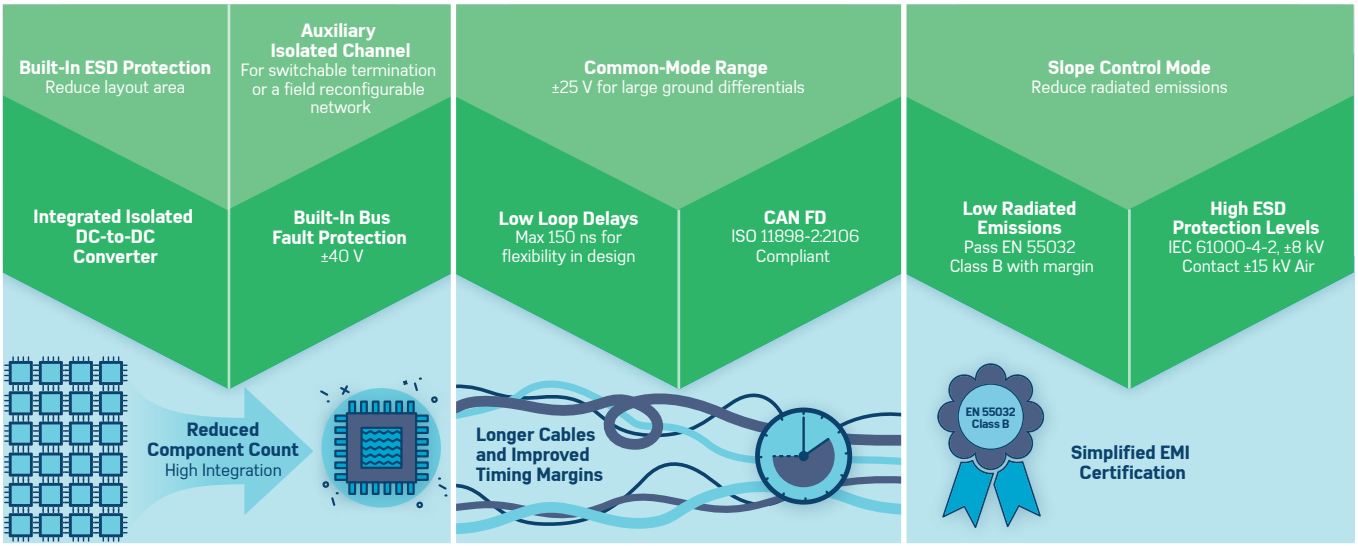


The ADM3055E family of CAN FD transceivers meets EN 55032 Class B without stitching capacitance on elegant 2-layer evaluation boards.

Samples and evaluation boards are available at *analog.com/iCoupler*

iCoupler®

New CAN FD Family: ADM3055E, ADM3056E, and ADM3050E



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